



14230 U.S. PTO

UTILITY APPLICATION

Attorney Docket No.: IMEC182.001C1C1

First Named Inventor: Alessandra Satta

Title: **METHOD FOR BOTTOMLESS DEPOSITION OF
BARRIER LAYERS IN INTEGRATED CIRCUIT
METALLIZATION SCHEMES**

Express Mail Label No.: EV 351352000 US

Direct all correspondence to Customer No.: 20995

Date: December 8, 2003

Page 1 of 2

Mail Stop Patent Application

United States Patent and Trademark Office

PO Box 1450

Alexandria, VA 22313-1450

22141 U.S. PTO
10/731656

The following enclosures are transmitted herewith to be filed in the patent application of:

Inventor(s):

- | | |
|----------------------|-------------------------|
| 1. Alessandra Satta | 2. Karen Maex |
| 3. Kai-Erik Elers | 4. Ville Antero Saanila |
| 5. Pekka Juha Soinen | 6. Suvi P. Haukka |

APPLICATION ELEMENTS:

(X) Specification in 25 pages.

(X) Drawings in 3 sheets.

(X) Declaration by Inventors in 4 pages.

- Copy from parent application
- Incorporation by Reference. The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied, is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
- Examiner in prior application: David Nhu
- Group Art Unit of prior application: 2818

CONTINUITY INFORMATION:

| Application | Relationship | Parent App. No. | Filing Date | Status |
|------------------|---|-----------------|-------------|---------------------------------|
| This Application | Continuation of | 10/123,492 | 04/15/02 | Pending |
| 10/123,492 | Continuation of | 09/644,636 | 08/23/00 | Issued as Pat. No. 6,391,785 |
| 09/644,636 | Non-Provisional claiming priority to | 60/150,486 | 08/24/99 | Closed |
| 09/644,636 | Non-Provisional claiming priority to | 60/159,799 | 10/15/99 | Closed |
| 09/644,636 | Non-Provisional claiming priority to | 60/176,944 | 01/18/00 | Closed |

| | |
|---|--|
| UTILITY APPLICATION | Attorney Docket No.: IMEC182.001C1C1 |
| | First Named Inventor: Alessandra Satta |
| | Title: METHOD FOR BOTTOMLESS DEPOSITION OF BARRIER LAYERS IN INTEGRATED CIRCUIT METALLIZATION SCHEMES |
| | Express Mail Label No.: EV 351352000 US |
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| Date: December 8, 2003 Page 2 of 2 | |

(X) Incorporation by Reference. The entire disclosure of the prior applications is considered a part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

OTHER APPLICATION PARTS:

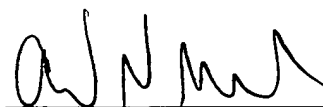
- (X) An Information Disclosure Statement in 1 page.
- (X) A PTO Form 1449 with 69 references that are **not** included.
- (X) Return prepaid postcard.

FILING FEES:

| FEE CALCULATION | | | | |
|--------------------|-------------|--------------|----------------------|--------------|
| FEE TYPE | | FEE CODE | CALCULATION | TOTAL |
| Basic Utility | | 1001 (\$770) | | \$770 |
| Non-English Spec. | | 1053 (\$130) | | \$0 |
| Excess Claims > 20 | 25 - 20 = 5 | 1202 (\$18) | 5 x 18 = | \$90 |
| Independent > 3 | 3 - 3 = 0 | 1201 (\$86) | 0 x 86 = | \$0 |
| Multiple Claim | | 1203 (\$290) | | \$0 |
| | | | TOTAL FEE DUE | \$860 |

(X) A check in the amount of **\$860** to cover the Total Fee Due is enclosed.

The Commissioner is hereby authorized to charge any additional fees which may be required, now or in the future, or credit any overpayment to Account No. 11-1410.



Andrew N. Merickel
Registration No. 53,317
Attorney of Record
Customer No. 20,995
(415) 954-4114

MAIL STOP PATENT APPLICATION
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

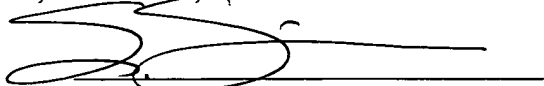
CERTIFICATE OF MAILING BY "EXPRESS MAIL"

Attorney Docket No. : IMEC182.001C1C1
Applicant(s) : Satta et al.
For : METHOD FOR BOTTOMLESS DEPOSITION
OF BARRIER LAYERS IN INTEGRATED
CIRCUIT METALLIZATION SCHEMES
Attorney : Andrew N. Merickel
"Express Mail"
Mailing Label No. : EV 351352000 US
Date of Deposit : December 8, 2003

I hereby certify that the accompanying

Transmittal letter; specification in 25 pages; 3 sheets of drawings; copy of
SIGNED Declaration by Inventor in 4 pages; Information Disclosure Statement
in 1 page and PTO Form 1449 in 3 pages listing 69 references that are **not**
enclosed; Check for Filing Fee; Return Prepaid Postcard

are being deposited with the United States Postal Service "Express Mail Post Office to
Addressee" service under 37 CFR 1.10 on the date indicated above and are addressed to the
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Sabrina Simmons

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